

#### ABSTRACT OF THE DISCLOSURE

A generator comprising a generator main section having a stator provided with a winding and a rotor provided with a winding and opposed to the stator with an air gap therebetween, the rotor being rotatably supported by a rotating shaft, and an excitor having a stator provided with a winding and a rotor provided with a winding and opposed to the stator with an air gap therebetween, the rotor being rotatably supported by the rotating shaft of the generator main section, and wherein the winding provided on the rotor of the generator main section and the winding provided on the rotor of the excitor are electrically connected to each other through electronic parts, and the stator and the rotor of the excitor are opposed to each other with an air gap therebetween in a direction along the rotating shaft.